



Fire Retardant

IEC 60332-1

LSOH

IEC 60754-1&2

IEC 61034-2

Design Reference

IEC 60794

Application

Structured Cabling System

Telecom Backbones

Indoor&Outdoor

FTTx

Working Condition

Storage Temperature

-40°C ~ +70°C

Installation Temperature:

-20°C ~ +60°C

Operation Temperature

-30°C ~ +70°C

Min. Allowable Bending Radius

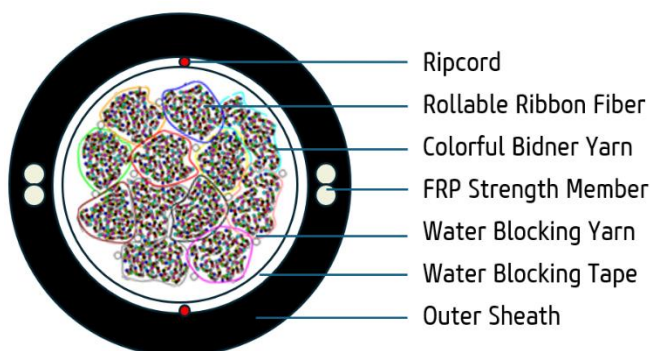
Static: > 15 D

Dynamic: > 20 D

D is the out diameter of the cable

LadonX™ Fiber Optic Cable Rollable Ribbon

Ribbon-12F/Jelly-free/FRP/LSOH



Technical data

Fiber Count		288	432	576	864	1728	3456
Fiber Count per Ribbon		12F					
Fiber Category		250um					
Ribbon Count		24	36	48	72	144	288
Ribbon OD (Approx.)	mm	3.1*0.28					
Ribbon Count per Binder		6	6	12	12	12	12
Strength Member Material		FRP					
Water Blocking		Water Blocking Yarn & Water Blocking Tape					
Ripcord		2					
Outer Sheath Material		LSOH					
Outer Sheath Color		Black					
Cable OD (Approx.)	mm	12.4	13.2	15.3	17.0	22.6	30.8
Cable weight (Approx.)	kg/km	120	130	160	195	295	570

Mechanic Performance

Tensile Performance(N)	Short Term	2700
	Long Term	810
Crush(N/100mm)	Short Term	2200
	Long Term	660



Mechanical Characteristics

Test	Standard	Value	Sanction*
Tensile Performance	IEC 60794-1-21-E1	2700N Sample length: ≥50m. Duration time: 1min.	Additional loss SM≤0.15dB @1550nm Fiber strain ≤0.6% No visual crack of cable sheath
Crush	IEC 60794-1-21-E3	2200N/100mm Duration of load: 1min	Additional loss SM≤0.10dB @1550nm No visual crack of cable sheath
Impact	IEC 60794-1-21-E4	4.4 J with striking surface radius of 300 mm Impact number: 1 Impact points: 3 (Not less than 1m apart)	Additional loss SM≤0.10dB @1550nm No visual crack of cable sheath
Repeated Bending	IEC 60794-1-21-E6	Bending radius: 20*D Cycles: 25 Load: 150N	Additional loss SM≤0.10dB @1550nm o visual crack of cable sheath
Torsion	IEC 60794-1-21-E7	Cycles:10 Turns: ±180° Load:150N	Additional loss SM≤0.10dB @1550nm No visual crack of cable sheath
Temperature Cycling	IEC 60794-1-22-F1	-30°C ~ +70°C Cycles: 2 Dwell time: 12 hours	Variation in attenuation coefficient SM≤0.15dB/km @1550nm
Water Penetration	IEC 60794-1-22-F5B	Time : 24 hours Sample length : 3m Water height : 1m	No water leakage

Identification

No.	1	2	3	4	5	6	Fiber & Binder Colors
Color	Blue	Orange	Green	Brown	Slate	White	
No.	7	8	9	10	11	12	
Color	Red	Black	Yellow	Violet	Pink	Aqua	

*From Binder 13-24, with white stripe, white color with black stripe, black color with yellow stripe.

Ribbon Number	Symbol	Ribbon Number	Symbol	Ribbon Number	Symbol
Ribbon 1	I	Ribbon 5	■	Ribbon 9	■ ■ ■ ■
Ribbon 2	II	Ribbon 6	■ I	Ribbon 10	■ ■ ■
Ribbon 3	III	Ribbon 7	■ II	Ribbon 11	■ ■ ■ I
Ribbon 4	IIII	Ribbon 8	■ III	Ribbon 12	■ ■ ■ II



Ordering Information

Product Part Number	Product Description
20xyy2512R12P4AS	Hermesys LadonX™ Fiber Optic Cable Rollable Ribbon <x-fiber type> <yy-fiber count>core Ribbon-12/Jelly-free/FRP/LSOH Black

Sheath Marking

Color: white

Interval: 1+1%/m

The outer sheath is marked in 1meter intervals as follows

HERMESYS LADONX FIBER OPTIC CABLE ROLLABLE RIBBON <Part Number> SM <Type> <Fiber Count> FIBER RIBBON-12 LSOH <WWYYYY> <Drum ID> <XXXX>M

<Part Number> indicates product P/N

<Type> indicates G.657A2 / G.657A1

<Fiber Count> indicates 288 to 3456

<WWYYYY> indicates week/year

<Drum ID> indicates each drum number, rule refer to Drum ID formula file

<XXXX> indicates meter

Shipping Information

Packing Method

Wooden Drum With Protection

Delivery Length

Standard Delivery Length is 2km with a tolerance of $\pm 3\%$

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All sizes and values without tolerances are reference values. Specifications are for product as supplied by Hermesys; any modification or alteration afterwards of product may give different result.

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www.hermesys.com

info@hermesys.com
Phone +65 6962 3588
27 New Industrial Rd, #06-06
Novelty Techpoint Singapore 536212

AH20AW

